

9-Cyano-substituted perylene-3,4-dicarboxylic monoimides

Abstract

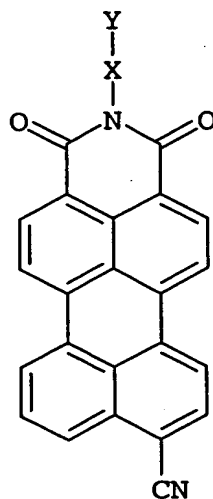
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A 9-cyano-substituted perylene-3,4-dicarboxylic monoimide I

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I

where the variables are defined as follows:

25 X

is a chemical bond; optionally substituted C₁-C₃₀-alkylene, C₅-C₈-cycloalkylene, arylene, hetarylene, C₁-C₂₀-alkylarylene, C₁-C₂₀-alkylhetarylene, aryl- or hetaryl-C₁-C₂₀-alkylene;

30 Y

is a functional group Y' or a polymerizable group P;

or

X-Y

together is an R radical;

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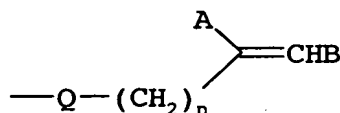
Y'

is amino, hydroxyl, -COOH, -SO₃H, chlorine or bromine;

P

is a radical II

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II

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- A, B are each independently hydrogen, C₁-C₆-alkyl or phenyl, or are together a cyclopentene or cyclohexene ring which contains the double bond to which A and B are bonded;
- 5 Q is a chemical bond; an -O-, -NR²-, -S-, -OCO-, -OCOO-, -OCONR³-, -NR³CO-, -NR³COO-, -NR³CONR⁴-, -CO-, -COO-, -CONR³-, -SO₂-O-, -SO₂NR³-, -O-SO₂- or -NR³SO₂- moiety;
- n is 0, 1, 2 or 3;
- 10 R is hydrogen; optionally substituted C₁-C₃₀-alkyl, C₅-C₈-cycloalkyl, aryl or hetaryl.
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